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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,570	07/03/2003	Gerry Quinn	P/3771-6	5459
2352 7590 11/28/2007 OSTROLENK FABER GERB & SOFF		N .	EXAMINER	
1180 AVENUE OF THE AMERICAS	SPAHN, GAY			
NEW YORK, NY 100368403			ART UNIT	PAPER NUMBER
,			. 3635	
			MAIL DATE	DELIVERY MODE
			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

T .	Application No.	Applicant(s)				
	10/613,570	QUINN, GERRY				
Office Action Summary	Examiner	Art Unit				
	Gay Ann Spahn	3635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 Se	1) Responsive to communication(s) filed on <u>14 September 2007</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 14 September 2007 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the other contents. 11) The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 23 October 2006 has been entered.

Drawings

Five (5) Replacement Sheets of drawings were received on 14 September 2007.

These drawings are approved by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 13, 15, 17-19, and 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by the Applicant's admitted prior art described on page 1,

paragraph no. [0004] through page 4, paragraph no. [0018] and illustrated in Prior Art Figs. 1-3 (hereinafter referred to as "APPLICANT'S ADMITTED PRIOR ART").

As to claim 11, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses a method for offshore pipeline laying (Prior Art Figs. 1-3), wherein the pipeline (shown as having length "L") is being laid on the seabed (bottom of Prior Art Figs. 1 and 3 and Prior Art Fig. 2) by a surface laying vessel (shown unnumbered at top of Prior Art Figs. 1 and 3) from a first position (TDP) on the seabed to a second position (target position) on the seabed, said method establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed (see paragraph nos. [0016] and [0017]), said method comprising the steps of:

installing first and second seabed transponders (any seabed transponder of the first array and any seabed transponder of the second array) along the pipelay route (the examiner deems any of the seabed transponders in the first and second arrays to be located sufficiently close to the pipelay route to be considered to be "along the pipelay route"), the first seabed transponder being near said second position (the examiner deems any of the seabed transponders in the first array to be sufficiently close to the target position so as to be considered to be "near said second position");

determining the distance separating said first and second seabed transponders (see paragraph no. [0014]);

installing a pipe transponder on said pipeline (see Prior Art Fig. 3 wherein squares denote pipe transponders);

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interrogating said second seabed transponder and said pipe transponder to determine the respective distance between them (see paragraph no. [0015]); and

determining from said respective distances separating said second seabed transponders and said pipe transponder, the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

As to claim 13, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 11 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> further comprises the steps of:

installing a third seabed transponder (intermediate seabed transponder in Prior Art Fig. 2) along the pipelay route (the examiner deems the intermediate seabed transponder to be sufficiently near the pipelay route to be considered to be "along the pipelay route");

installing a second pipe transponder (any one of the three pipe transponders shown in Prior Art Fig. 3 which has not been deemed the pipe transponder introduced in claim 11) on said pipeline (shown as having length "L") near said first pipe transponder; and

interrogating said third seabed transponder and said second pipe transponder so as to determine the respective distance between them so as to further establish the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

As to claim 18, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 11 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also

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discloses that exactly one pipe transponder is installed on said pipeline in the installing said step of installing a pipe transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly one pipe transponder is installed in the step of installing a pipe transponder. The fact that Prior Art Fig. 3 shows three pipe transponders (i.e., squares) is because other pipe transponders are installed in other steps of installing pipe transponders.

As to claim 23, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 11 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also discloses that exactly two seabed transponders are installed in said step of installing said first and second seabed transponders.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly two seabed transponders are installed in the step of installing said first and second seabed transponders. The fact that Prior Art Figs. 2 and 3 show two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 24, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 13 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also discloses that exactly three seabed transponders are installed as said first, second and third seabed transponders.

It is the examiner's position that it goes without saying that <u>APPLICANT'S</u>

<u>ADMITTED PRIOR ART</u> discloses exactly three seabed transponders are installed said

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first, second, and third seabed transponders. The fact that Prior Art Figs. 2 and 3 show two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 15, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses a method for offshore pipeline laying (Figs. 1-3), and <u>APPLICANT'S ADMITTED PRIOR ART</u> the pipeline (shown as having length "L") is being laid on the seabed (bottom of Prior Art Figs. 1 and 3 and Prior Art Fig. 2) by a surface laying vessel (shown unnumbered at top of Prior art Figs. 1 and 3) from a first position (TDP) on the seabed to a second position (target position) on the seabed, said method for establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed (see paragraph nos. [0016] and [0017]), said method comprising the steps of:

installing a seabed transponder (any seabed transponder of the first or second arrays) along the pipelay route (the examiner deems any of the seabed transponders in the first and second arrays to be located sufficiently close to the pipelay route to be considered to be "along the pipelay route");

installing a pipe transponder (see Prior Art Fig. 3 wherein squares denote pipe transponders) on said pipeline (shown as having length "L");

interrogating said seabed transponder and said pipe transponder to determine the respective distance between them (see paragraph no. [0015]); and

determining from said respective distance separating said seabed transponder and said pipe transponder, the remaining length of pipeline needed to reach the second position on the seabed (see paragraph nos. [0016] and [0017]).

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As to claim 17, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 15 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> further comprises the steps of:

installing another seabed transponder (intermediate seabed transponder in Fig. 2) along the pipelay route (the examiner deems the intermediate seabed transponder to be sufficiently near the pipelay route to be considered to be "along the pipelay route");

installing a second pipe transponder (any one of the three pipe transponders shown in Prior Art Fig. 3 which has not been deemed the pipe transponder introduced in claim 11) on said pipeline (shown as having length "L") near said first pipe transponder; and

interrogating said other seabed transponder and said second pipe transponder so as to determine the respective distance between them so as to further establish the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

As to claim 19, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 15 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also discloses that exactly one pipe transponder is installed on said pipeline in said step of installing a pipe transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u>
discloses that exactly one pipe transponder is installed in the step of installing a pipe
transponder. The fact that Prior Art Fig. 3 shows three pipe transponders (i.e., squares)

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is because other pipe transponders are installed in other steps of installing pipe transponders.

As to claim 25, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 15 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also discloses that exactly one seabed transponder is installed in said step of installing a seabed transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly one seabed transponder is installed in the step of installing a seabed transponder. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 26, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses the method of claim 17 as discussed above, and <u>APPLICANT'S ADMITTED PRIOR ART</u> also discloses that exactly two seabed transponders are installed in said steps of installing a seabed transponder and installing another seabed transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly two seabed transponders are installed in the step of installing a seabed transponder and installing another seabed transponder. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art described on page 1, paragraph no. [0004] through page 4, paragraph no. [0018] and illustrated in prior art Figs. 1-3 (hereinafter referred to as "APPLICANT'S ADMITTED PRIOR ART") in view of KOLB (U.S. Patent No. 3,576,977).

As to claim 1, APPLICANT'S ADMITTED PRIOR ART discloses that a method for offshore pipeline laying (Figs. 1-3), the pipeline (shown as having catenary length "L") is laid on the seabed (bottom of Figs. 1 and 3 and Fig. 2) by a surface laying vessel (shown unnumbered at top of Figs. 1 and 3) from a first position (TDP) on the seabed to a second position (target position) on the seabed for making a connection at said second position to a subsea structure, and presenting a catenary length between the seabed and the laying vessel (shown unnumbered at top of Figs. 1 and 3), said method establishing the length of pipeline (shown as having length "L") required to be provided from the vessel (shown unnumbered at top of Figs. 1 and 3) to reach the second position (target position) on the seabed (see paragraph nos. [0016] and [0017]), said method comprising the steps of:

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installing a first seabed transponder (any transponder of first array) near the pipelay route centerline at the second position (target position);

installing a second seabed transponder (any transponder of second array) near the pipelay route centerline spaced upstream from the first seabed transponder at a distance (see Fig. 2) greater than the catenary length (L) of the pipeline;

establishing the positions of the first and second seabed transponders so as to determine the exact distance separating said first and second seabed transponders (see paragraph no. [0014]);

attaching a first pipe transponder (the squares in Fig. 3 represent pipe transponders) on the pipeline (shown as having catenary length "L") and laying the pipeline at the first position so that it will land close to the second seabed transponder (see Fig. 3);

interrogating the second seabed transponder and the first pipe transponder in a relative mode to establish the exact distance between them (see paragraph no. [0015]);

comparing the established distance with the distance separating the first and second seabed transponders to calculate the remaining length of pipeline required to reach the second position (see paragraph no. [0016]);

cutting the pipeline according to said remaining length (see paragraph no. [0017]);

welding the connector to the pipeline (see paragraph no. [0017]); and thereby laying the pipeline to the second position with the connector being at the second position (see paragraph no. [0017]).

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However, <u>APPLICANT'S ADMITTED PRIOR ART</u> fails to explicitly disclose installing a first and second seabed transponder on the pipelay route centerline.

KOLB discloses the step of installing transponders on the pipelay route centerline (see centerline of pipelay route (12) in Fig. 1 and col. 3, lines 13-36 and more particularly, lines 28-35 wherein "preplaced bottom mounted sonic marker beacons or transponders" are disclosed to be on the centerline of the pipelay route (12)).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method for cutting undersea pipeline to length of APPLICANT'S ADMITTED PRIOR ART by placing the seabed transponders on the centerline of the pipelay route as taught by KOLB in order to minimize the stress on the pipeline and the pipe support structure.

As to claim 2, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 1 as discussed above.

<u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> fails to explicitly disclose that the distance (D') is comprised between (L + 300 ft) and (L +700 ft).

However, it is well settled that changes in size/proportion do not constitute patentable subject matter (see the Manual of Patent Examining Procedure (MPEP) § 2144.04 entitled "LEGAL PRECEDENT AS SOURCE OF SUPPORTING RATIONALE", and subsection (IV)(A), entitled "Changes in Size/Proportion").

See *In re Rose*, 220 F.2d 459, 105 USPQ 237 (CCPA 1955) (Claims directed to a lumber package "of appreciable size and weight requiring handling by a lift truck" where held unpatentable over prior art lumber packages which could be lifted by hand because limitations

relating to the size of the package were not sufficient to patentably distinguish over the prior art.); *In re Rinehart*, 531 F.2d 1048, 189 USPQ 143 (CCPA 1976) ("mere scaling up of a prior art process capable of being scaled up, if such were the case, would not establish patentability in a claim to an old process so scaled." 531 F.2d at 1053, 189 USPQ at 148.).

See also *In Gardner v. TEC Systems, Inc.*, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), *cert. denied*, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.).

Therefore, the examiner deems that it would have been an obvious expedient for one of ordinary skill in the art at the time the invention was made to have modified the method for cutting undersea pipeline to length resulting from <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> by making the distance (D') between the first and second seabed transponders be between 300 to 700 feet greater than the catenary length (L) of the pipeline in order to allow room for error and since changes in size/proportion (i.e., dimensions) do not constitute patentable subject matter (see also *The Ward Machinery Company v. Wm. Staley Machinery Corporation*, 192 USPQ 505 (DC Md 1976), holding that improvement resulting from a change in size, proportion or degree of element contained in the prior art, no matter how desirable or useful, does not constitute patentable invention).

As to claim 3, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 1 as discussed above, and <u>APPLICANT'S ADMITTED</u>

<u>PRIOR ART</u> also disclose that a third seabed transponder is arranged on the pipelay route upstream from the second seabed transponder (the second array of seabed

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transponders shows numerous seabed transponders and the examiner deems the second seabed transponder to be one of the transponders in the second array that is closest to the first array and the third seabed transponder to be one of the transponders in the second array that is farthest from the first array so that the third seabed transponder is upstream of the second seabed transponder).

As to claim 4, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 3 as discussed above, and <u>APPLICANT'S ADMITTED</u>

<u>PRIOR ART</u> also discloses that a second pipe transponder is attached to the pipeline upstream from the first pipe transponder (Prior Art Fig. 3 shows three pipe transponders with a second being upstream of a first).

As to claim 5, APPLICANT'S ADMITTED PRIOR ART in view of KOLB discloses the method of claim 4 as discussed above, and APPLICANT'S ADMITTED PRIOR ART also discloses that the distance between the first and second pipe transponders is shorter than the distance between the second and third seabed transponders (see Prior Art Fig. 3).

As to claim 6, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 4 as discussed above, and <u>APPLICANT'S ADMITTED</u>

<u>PRIOR ART</u> also discloses that the pipeline is laid so that the first and second pipe transponders are laid in between the second and third seabed transponders (see Prior Art Fig. 3).

As to claim 7, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 1 as discussed above, and <u>APPLICANT'S ADMITTED</u>

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<u>PRIOR ART</u> also discloses that another pipe transponder is attached to the pipeline to help the positioning of the connector at the second position (see paragraph no. [0017]).

As to claim 8, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 4 as discussed above.

APPLICANT'S ADMITTED PRIOR ART in view of KOLB fails to explicitly disclose that the second and third seabed transponders are spaced about 500 feet apart.

However, it is well settled that changes in size/proportion do not constitute patentable subject matter (see the Manual of Patent Examining Procedure (MPEP) § 2144.04 entitled "LEGAL PRECEDENT AS SOURCE OF SUPPORTING RATIONALE", and subsection (IV)(A), entitled "Changes in Size/Proportion").

See *In re Rose*, 220 F.2d 459, 105 USPQ 237 (CCPA 1955) (Claims directed to a lumber package "of appreciable size and weight requiring handling by a lift truck" where held unpatentable over prior art lumber packages which could be lifted by hand because limitations relating to the size of the package were not sufficient to patentably distinguish over the prior art.); *In re Rinehart*, 531 F.2d 1048, 189 USPQ 143 (CCPA 1976) ("mere scaling up of a prior art process capable of being scaled up, if such were the case, would not establish patentability in a claim to an old process so scaled." 531 F.2d at 1053, 189 USPQ at 148.).

See also *In Gardner v. TEC Systems, Inc.*, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), *cert. denied*, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.).

Therefore, the examiner deems that it would have been an obvious expedient for one of ordinary skill in the art at the time the invention was made to have modified the

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method for cutting undersea pipeline to length resulting from <u>APPLICANT'S ADMITTED</u>

<u>PRIOR ART</u> in view of <u>KOLB</u> by making the second and third seabed transponders be spaced about 500 feet apart in order to optimize the distance between the seabed transponders and since changes in size/proportion (i.e., dimensions) do not constitute patentable subject matter (see also *The Ward Machinery Company v. Wm. Staley Machinery Corporation*, 192 USPQ 505 (DC Md 1976), holding that improvement resulting from a change in size, proportion or degree of element contained in the prior art, no matter how desirable or useful, does not constitute patentable invention).

As to claim 9, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 8 as discussed above.

APPLICANT'S ADMITTED PRIOR ART in view of KOLB fails to explicitly disclose that the first and second pipeline transponders are spaced about 300 feet apart.

However, it is well settled that changes in size/proportion (i.e., dimensions) do not constitute patentable subject matter (see the Manual of Patent Examining Procedure (MPEP) § 2144.04 entitled "LEGAL PRECEDENT AS SOURCE OF SUPPORTING RATIONALE", and subsection (IV)(A), entitled "Changes in Size/Proportion").

See *In re Rose*, 220 F.2d 459, 105 USPQ 237 (CCPA 1955) (Claims directed to a lumber package "of appreciable size and weight requiring handling by a lift truck" where held unpatentable over prior art lumber packages which could be lifted by hand because limitations relating to the size of the package were not sufficient to patentably distinguish over the prior art.); *In re Rinehart*, 531 F.2d 1048, 189 USPQ

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143 (CCPA 1976) ("mere scaling up of a prior art process capable of being scaled up, if such were the case, would not establish patentability in a claim to an old process so scaled." 531 F.2d at 1053, 189 USPQ at 148.).

See also *In Gardner v. TEC Systems, Inc.*, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), *cert. denied*, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.).

Therefore, the examiner deems that it would have been an obvious expedient for one of ordinary skill in the art at the time the invention was made to have modified the method for cutting undersea pipeline to length resulting from APPLICANT'S ADMITTED PRIOR ART in view of KOLB by making the first and second pipeline transponders be spaced about 300 feet apart in order to optimize the distance between the pipeline transponders and since changes in size/proportion (i.e., dimensions) do not constitute patentable subject matter (see also *The Ward Machinery Company v. Wm. Staley Machinery Corporation*, 192 USPQ 505 (DC Md 1976), holding that improvement resulting from a change in size, proportion or degree of element contained in the prior art, no matter how desirable or useful, does not constitute patentable invention).

As to claim 10, APPLICANT'S ADMITTED PRIOR ART in view of KOLB discloses the method of claim 9 as discussed above, and APPLICANT'S ADMITTED PRIOR ART in view of KOLB also discloses that the pipeline is laid so that the first and second pipe transponders are laid in between the second and third seabed transponders (see Prior Art Fig. 3 - the second array of seabed transponders shows numerous seabed transponders and the examiner deems the second seabed

transponder to be one of the transponders in the second array that is closest to the first array and the third seabed transponder to be one of the transponders in the second array that is farthest from the first array so that the first and second pipe transponders are between the second and third seabed transponders).

As to claim 11, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses a method for offshore pipeline laying (Prior Art Figs. 1-3), wherein pipeline (shown as having length "L") is being laid on the seabed (bottom of Prior Art Figs. 1 and 3 and Prior Art Fig. 2) by a surface laying vessel (shown unnumbered at top of Prior Art Figs. 1 and 3) from a first position (TDP) on the seabed to a second position (target position) on the seabed, said method establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed (see paragraph nos. [0016] and [0017]), said method comprising the steps of:

installing first and second seabed transponders (any seabed transponder of the first array and any seabed transponder of the second array) along the pipelay route (the examiner deems any of the seabed transponders in the first and second arrays to be located sufficiently close to the pipelay route to be considered to be "along the pipelay route"), the first seabed transponder being near said second position (the examiner deems any of the seabed transponders in the first array to be sufficiently close to the target position so as to be considered to be "near said second position");

determining the distance separating said first and second seabed transponders (see paragraph no. [0014]);

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installing a pipe transponder on said pipeline (see Prior Art Fig. 3 wherein squares denote pipe transponders);

interrogating said second seabed transponder and said pipe transponder to determine the respective distance between them (see paragraph no. [0015]); and determining from said respective distances separating said second seabed transponders and said pipe transponder, the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

However, <u>APPLICANT'S ADMITTED PRIOR ART</u> may fail to explicitly disclose, depending upon how one of ordinary skill in the art would interpret "sufficiently near", that the seabed transponders are arranged sufficiently near the pipelay route centerline.

KOLB discloses that the seabed transponders are arranged sufficiently near the pipelay route centerline (see centerline of pipelay route (12) in Fig. 1 and col. 3, lines 13-36 and more particularly, lines 28-35 wherein "preplaced bottom mounted sonic marker beacons or transponders" are disclosed to be on the centerline of the pipelay route (12)).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method for cutting undersea pipeline to length of APPLICANT'S ADMITTED PRIOR ART by placing the seabed transponders on the centerline of the pipelay route as taught by KOLB in order to minimize the stress on the pipeline and the pipe support structure.

As to claim 12, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 11 as discussed above, and <u>APPLICANT'S ADMITTED</u>

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PRIOR ART in view of KOLB discloses that the seabed transponders are arranged on the pipelay route centerline (see centerline of pipelay route (12) in Fig. 1 and col. 3, lines 13-36 and more particularly, lines 28-35 wherein "preplaced bottom mounted sonic marker beacons or transponders" are disclosed to be on the centerline of the pipelay route (12)).

As to claim 13, APPLICANT'S ADMITTED PRIOR ART in view of KOLB discloses the method of claim 11 as discussed above, and APPLICANT'S ADMITTED PRIOR ART in view of KOLB further comprises the steps of:

installing a third seabed transponder (intermediate seabed transponder in Prior Art Fig. 2) along the pipelay route (the examiner deems the intermediate seabed transponder to be sufficiently near the pipelay route to be considered to be "along the pipelay route");

installing a second pipe transponder (any one of the three pipe transponders shown in Prior Art Fig. 3 which has not been deemed the pipe transponder introduced in claim 11) on said pipeline (shown as having length "L") near said first pipe transponder; and

interrogating said third seabed transponder and said second pipe transponder so as to determine the respective distance between them so as to further establish the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

As to claim 14, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 4 as discussed above, and <u>APPLICANT'S ADMITTED</u>

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PRIOR ART also discloses that a third pipe transponder is attached to the pipeline to help the positioning of the connector at the second position (see paragraph no. [0017]).

As to claim 15, <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses a method for offshore pipeline laying (Prior Art Figs. 1-3), wherein pipeline (shown as having length "L") is being laid on the seabed (bottom of Prior Art Figs. 1 and 3 and Prior Art Fig. 2) by a surface laying vessel (shown unnumbered at top of Prior Art Figs. 1 and 3) from a first position (TDP) on the seabed to a second position (target position) on the seabed, said method for establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed (see paragraph nos. [0016] and [0017]), said method comprising the steps of:

installing a seabed transponder (any seabed transponder of the first or second arrays) along the pipelay route (the examiner deems any of the seabed transponders in the first and second arrays to be located sufficiently close to the pipelay route to be considered to be "along the pipelay route");

installing a pipe transponder (see Prior Art Fig. 3 wherein squares denote pipe transponders) on said pipeline (shown as having length "L");

interrogating said seabed transponder and said pipe transponder to determine the respective distance between them (see paragraph no. [0015]); and

determining from said respective distance separating said seabed transponder and said pipe transponder, the remaining length of pipeline needed to reach the second position on the seabed (see paragraph nos. [0016] and [0017]).

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However, <u>APPLICANT'S ADMITTED PRIOR ART</u> fails to explicitly disclose that the seabed transponders are arranged sufficiently near the pipelay route centerline.

KOLB discloses that the seabed transponders are arranged sufficiently near the pipelay route centerline (see centerline of pipelay route (12) in Fig. 1 and col. 3, lines 13-36 and more particularly, lines 28-35 wherein "preplaced bottom mounted sonic marker beacons or transponders" are disclosed to be on the centerline of the pipelay route (12)).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method for cutting undersea pipeline to length of APPLICANT'S ADMITTED PRIOR ART by placing the seabed transponders on the centerline of the pipelay route as taught by KOLB in order to minimize the stress on the pipeline and the pipe support structure.

As to claim 16, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 15 as discussed above, and <u>APPLICANT'S ADMITTED</u> <u>PRIOR ART</u> in view of <u>KOLB</u> further discloses that the seabed transponder is arranged on the pipelay route centerline (see centerline of pipelay route (12) in Fig. 1 and col. 3, lines 13-36 and more particularly, lines 28-35 wherein "preplaced bottom mounted sonic marker beacons or transponders" are disclosed to be on the centerline of the pipelay route (12)).

As to claim 17, APPLICANT'S ADMITTED PRIOR ART in view of KOLB discloses the method of claim 15 as discussed above, and APPLICANT'S ADMITTED PRIOR ART in view of KOLB further comprises the steps of:

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installing another seabed transponder (intermediate seabed transponder in Fig. 2) along the pipelay route (the examiner deems the intermediate seabed transponder to be sufficiently near the pipelay route to be considered to be "along the pipelay route");

installing a second pipe transponder (any one of the three pipe transponders shown in Prior Art Fig. 3 which has not been deemed the pipe transponder introduced in claim 11) on said pipeline (shown as having length "L") near said first pipe transponder; and

interrogating said other seabed transponder and said second pipe transponder so as to determine the respective distance between them so as to further establish the remaining length of pipeline needed to reach the second position (see paragraph nos. [0016] and [0017]).

As to claim 18, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 11 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly one pipe transponder is installed on said pipeline in the installing said step of installing a pipe transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly one pipe transponder is installed in the step of installing a pipe transponder. The fact that Prior Art Fig. 3 shows three pipe transponders (i.e., squares) is because other pipe transponders are installed in other steps of installing pipe transponders.

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As to claim 19, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 15 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly one pipe transponder is installed on said pipeline in said step of installing a pipe transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly one pipe transponder is installed in the step of installing a pipe transponder. The fact that Prior Art Fig. 3 shows three pipe transponders (i.e., squares) is because other pipe transponders are installed in other steps of installing pipe transponders.

As to claim 20, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 1 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly one pipe transponder is attached on said pipeline in said step of attaching a first pipe transponder.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly one pipe transponder is installed in the step of installing a first pipe transponder. The fact that Prior Art Fig. 3 shows three pipe transponders (i.e., squares) is because other pipe transponders are installed in other steps of installing pipe transponders.

As to claim 21, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 1 as discussed above, and the resulting method from the

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combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly two seabed transponders than are installed in said steps of installing said first and second seabed transponders.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly two seabed transponders are installed in the step of installing said first and second seabed transponders. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 22, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 3 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly three seabed transponders are installed as said first, second and third seabed transponders.

It is the examiner's position that it goes without saying that <u>APPLICANT'S</u>

<u>ADMITTED PRIOR ART</u> discloses exactly three seabed transponders are installed said first, second, and third seabed transponders. The fact that Prior Art Figs. 2 and 3 show two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 23, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 11 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also

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discloses that exactly two seabed transponders are installed in said step of installing said first and second seabed transponders.

It is the examiner's position that <u>APPLICANT'S ADMITTED PRIOR ART</u> discloses that exactly two seabed transponders are installed in the step of installing said first and second seabed transponders. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 24, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 13 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly three seabed transponders are installed as said first, second and third seabed transponders.

It is the examiner's position that it goes without saying that <u>APPLICANT'S</u>

<u>ADMITTED PRIOR ART</u> discloses exactly three seabed transponders are installed said first, second, and third seabed transponders. The fact that Prior Art Figs. 2 and 3 show two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 25, <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> discloses the method of claim 15 as discussed above, and the resulting method from the combination of <u>APPLICANT'S ADMITTED PRIOR ART</u> in view of <u>KOLB</u> also discloses that exactly one seabed transponder is installed in said step of installing a seabed transponder.

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It is the examiner's position that APPLICANT'S ADMITTED PRIOR ART discloses that exactly one seabed transponder is installed in the step of installing a seabed transponder. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

As to claim 26, APPLICANT'S ADMITTED PRIOR ART in view of KOLB discloses the method of claim 17 as discussed above, and the resulting method from the combination of APPLICANT'S ADMITTED PRIOR ART in view of KOLB also discloses that exactly two seabed transponders are installed in said steps of installing a seabed transponder and installing another seabed transponder.

It is the examiner's position that APPLICANT'S ADMITTED PRIOR ART discloses that exactly two seabed transponders are installed in the step of installing a seabed transponder and installing another seabed transponder. The fact that Prior Art Fig. 3 shows two arrays of seabed transponders (i.e., circles) is because other seabed transponders are installed in other steps of installing seabed transponders.

Response to Arguments

Applicant's arguments filed 14 September 2007 have been fully considered but they are not persuasive.

In the Remarks section, at the middle of page 13, Applicant argues that independent claim 11's and claim 15's recitation of the step of "determining from said respective distance separating said seabed transponder and said pipe transponder, the

remaining length of pipeline needed to reach the second position on the seabed" is not performed by the background art. The examiner disagrees. At paragraph nos. [0012][0018], the prior art method is described as follows:

The known method consists in determining the exact position (two coordinates) of the pipe end at the TDP where it first touches the seabed and comparing it with the known coordinates of the target position to determine at what moment to cut the flowline and weld the connection.

On the seabed, a first array of 6 seabed transponders are arranged around the target position. A second array are arranged on the seabed around the predicted TDP upstream from the target position at a distance D' greater than L. If need be, an intermediate transponder can be arranged in between the two arrays for allowing communication between them.

To be able to determine the exact position of the flowline on the seabed, the exact position of these seabed transponders must be known. In order to do so, the survey vessel determines exactly the position of two seabed transponders per array and then based on these two known seabed transponders, is able by interrogating the seabed transponders to determine the exact position of the other seabed transponders by comparing the distance separating them from each other. Installation of the seabed transponders and determination of their positions normally can take about two days and will require a survey vessel.

Then 3 pipe transponders are attached to the pipe so as to land within the second array of seabed transponders. When the pipe transponders land on the sea bed, a survey vessel (not shown) interrogates the seabed transponders of the second array and the pipe transponders in a relative mode to determinate the length separating each of the seabed transponders from the pipe transponders. When all the lengths are known, the exact position of the pipe transponders on the seabed is accurately known. To know the exact coordinates of a pipe transponder, requires the use of at least two seabed transponders. Preferably, three pipe transponders and six seabed transponders are used for redundancy and double checking purposes.

With the exact position of the pipe transponder(s), it is possible to determine the remaining length of flowline required to reach the target position by comparing the coordinates of the target position with the coordinates of the pipe transponders.

When this remaining flowline length is reached, the flowline is cut on the laying vessel, the connection means is welded to the flowline and a fourth transponder (not shown) is attached to this connection means. The

pipe is then dropped onto the seabed. The fourth pipe transponder is used to position accurately the pipe connection means in the target box by determining again the exact position of this fourth pipe transponder using the first array of seabed transponders and comparing the resulting coordinates with the coordinates of the target position.

This prior art method gives very good results. Unfortunately, it is time-consuming, requires an additional vessel, typically a survey vessel and requires at least 2 days of vessel work before and after laying to install and recover the seabed transponders and requires more than 16 transponders (2.times.6 seabed transponders and 4 pipe transponders).

Thus, it is the examiner's position that the prior art method only determines the "exact coordinates" of the transponders and target position in order to determine the distances between them and is clearly doing the same thing that the present invention is doing.

On the middle of page 14, Applicant argues that <u>KOLB</u> "adds nothing" and that even if the <u>APPLICANT'S ADMITTED PRIOR ART</u> and <u>KOLB</u> were combined, the claim limitations would not be met and the result would be a separate method of cutting a pipeline and method of controlling a vessel. The examiner disagrees. <u>KOLB</u> discloses a system and method for controlling the positioning of a pipelaying vessel. In controlling the pipelaying vessel, <u>KOLB</u> is also controlling the laying of the pipeline and thus, is entirely relevant to the present invention.

In the Remarks section at the bottom of page 14, Applicant argues that neither <u>APPLICANT'S ADMITTED PRIOR ART</u> nor <u>KOLB</u>, alone or in combination, disclose claim 1's steps of "interrogating said second seabed transponder and said pipe transponder to determine the relative distance between them; and comparing the established distance with the distance separating the first and second seabed

position." After stating that neither APPLICANT'S ADMITTED PRIOR ART nor KOLB can accomplish the interrogating and comparing steps, Applicant then proceed to discuss only KOLB. However, it is APPLICANT'S ADMITTED PRIOR ART that the examiner has said discloses the interrogating and comparing steps. The examiner has clearly set forth that the interrogating step is disclosed by APPLICANT'S ADMITTED PRIOR ART at paragraph no. [0015] of the specification and the comparing step is disclosed by APPLICANT'S ADMITTED PRIOR ART at paragraph no. [0016]. Applicant has failed to establish any reason why APPLICANT'S ADMITTED PRIOR ART fails to disclose the interrogating and comparing steps.

Finally, in the Remarks section on the bottom of page 15, Applicant argues that claims 2, 8 and 9 are allowable because the dimensions disclosed therein are not mere trivial variations and are not disclosed by the prior art. The examiner points Applicant's attention to the Manual of Patent Examining Procedure (MPEP) § 2144.04, entitled "LEGAL PRECEDENT AS SOURCE OF SUPPORTING RATIONALE", wherein examples directed to various common practices which the court has held normally require only ordinary skill in the art and hence are considered routine expedients are discussed. More particularly, in subsection (IV)(A), entitled "Changes in Size/Proportion", discusses that changes in size/proportion (i.e., dimensions) require only ordinary skill in the art and hence are considered routine expedients.

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Based on the foregoing, the examiner is maintaining her rejection of claims 1-17 as rejected in the Office Action mailed 14 December 2006 and rejecting amended dependent claims 18-26 on the basis of the same prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gay Ann Spahn whose telephone number is (571)-272-7731. The examiner can normally be reached on Monday through Thursday, 8:30 am to 7:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard E. Chilcot can be reached on (571)-272-6777. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

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Gay Ann Spahn
Gay Ann Spahn, Patent Examiner
November 23, 2007